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PASSWORD:

TERMINAL (ENTER 1, 2, 3, OR ?):2

* * * * * Welcome to STN International * * * * *

NEWS 1 Web Page for STN Seminar Schedule - N. America
NEWS 2 DEC 01 ChemPort single article sales feature unavailable
NEWS 3 JAN 06 The retention policy for unread STNmail messages
will change in 2009 for STN-Columbus and STN-Tokyo
NEWS 4 JAN 07 WPIDS, WPINDEX, and WPIX enhanced Japanese Patent
Classification Data
NEWS 5 FEB 02 Simultaneous left and right truncation (SLART) added
for CERAB, COMPUAB, ELCOM, and SOLIDSTATE
NEWS 6 FEB 02 GENBANK enhanced with SET PLURALS and SET SPELLING
NEWS 7 FEB 06 Patent sequence location (PSL) data added to USGENE
NEWS 8 FEB 10 COMPENDEX reloaded and enhanced
NEWS 9 FEB 11 WTEXTILES reloaded and enhanced
NEWS 10 FEB 19 New patent-examiner citations in 300,000 CA/CAPLUS
patent records provide insights into related prior
art
NEWS 11 FEB 19 Increase the precision of your patent queries -- use
terms from the IPC Thesaurus, Version 2009.01
NEWS 12 FEB 23 Several formats for image display and print options
discontinued in USPATFULL and USPAT2
NEWS 13 FEB 23 MEDLINE now offers more precise author group fields
and 2009 MeSH terms
NEWS 14 FEB 23 TOXCENTER updates mirror those of MEDLINE - more
precise author group fields and 2009 MeSH terms
NEWS 15 FEB 23 Three million new patent records blast AEROSPACE into
STN patent clusters
NEWS 16 FEB 25 USGENE enhanced with patent family and legal status
display data from INPADOCDB
NEWS 17 MAR 06 INPADOCDB and INPAFAMDB enhanced with new display
formats
NEWS 18 MAR 11 EPFULL backfile enhanced with additional full-text
applications and grants
NEWS 19 MAR 11 ESBIOBASE reloaded and enhanced
NEWS 20 MAR 20 CAS databases on STN enhanced with new super role
for nanomaterial substances
NEWS 21 MAR 23 CA/CAPLUS enhanced with more than 250,000 patent
equivalents from China
NEWS 22 MAR 30 IMSPATENTS reloaded and enhanced
NEWS 23 APR 03 CAS coverage of exemplified prophetic substances
enhanced
NEWS 24 APR 07 STN is raising the limits on saved answers

NEWS EXPRESS JUNE 27 08 CURRENT WINDOWS VERSION IS V8.3,
AND CURRENT DISCOVER FILE IS DATED 23 JUNE 2008.

NEWS HOURS STN Operating Hours Plus Help Desk Availability
NEWS LOGIN Welcome Banner and News Items

NEWS IPC8 For general information regarding STN implementation of IPC 8

Enter NEWS followed by the item number or name to see news on that specific topic.

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* * * * * STN Columbus * * * * *

FILE 'HOME' ENTERED AT 18:23:09 ON 24 APR 2009

=> fil reg

COST IN U.S. DOLLARS	SINCE FILE ENTRY	TOTAL SESSION
FULL ESTIMATED COST	0.22	0.22

FILE 'REGISTRY' ENTERED AT 18:23:22 ON 24 APR 2009

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PLEASE SEE "HELP USAGETERMS" FOR DETAILS.

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Property values tagged with IC are from the ZIC/VINITI data file provided by InfoChem.

STRUCTURE FILE UPDATES: 23 APR 2009 HIGHEST RN 1138395-00-2

DICTIONARY FILE UPDATES: 23 APR 2009 HIGHEST RN 1138395-00-2

New CAS Information Use Policies, enter HELP USAGETERMS for details.

TSCA INFORMATION NOW CURRENT THROUGH January 9, 2009.

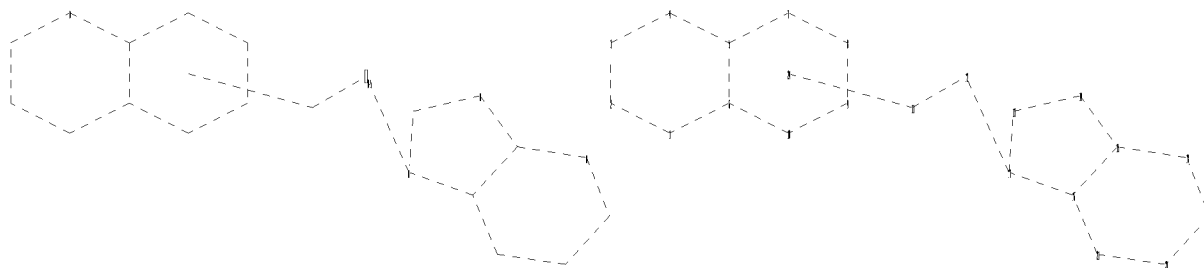
Please note that search-term pricing does apply when conducting SmartSELECT searches.

REGISTRY includes numerically searchable data for experimental and predicted properties as well as tags indicating availability of experimental property data in the original document. For information on property searching in REGISTRY, refer to:

<http://www.cas.org/support/stngen/stndoc/properties.html>

=>

Uploading C:\Program Files\Stnexp\Queries\QUERIES\10550286.str



```

chain nodes :
11 12
ring nodes :
1 2 3 4 5 6 7 8 9 10 13 14 15 16 17 18 19 20 21
chain bonds :
11-12 12-17
ring bonds :
1-2 1-6 2-3 3-4 4-5 5-6 5-7 6-10 7-8 8-9 9-10 13-17 13-14 14-15 15-16
15-18 16-17 16-21 18-19 19-20 20-21
exact/norm bonds :
1-2 1-6 2-3 3-4 4-5 5-6 5-7 6-10 7-8 8-9 9-10 11-12 12-17 13-17 13-14
14-15 15-16 15-18 16-17 16-21 18-19 19-20 20-21

```

```

Match level :
1:CLASS 2:CLASS 3:CLASS 4:CLASS 5:CLASS 6:CLASS 7:CLASS 8:CLASS 9:CLASS
10:CLASS 11:CLASS 12:CLASS 13:CLASS 14:CLASS 15:CLASS 16:CLASS 17:CLASS
18:CLASS 19:CLASS 20:CLASS 21:CLASS 24:CLASS

```

L1 STRUCTURE UPLOADED

```

=> d
L1 HAS NO ANSWERS
L1 STR

```

* STRUCTURE DIAGRAM TOO LARGE FOR DISPLAY - AVAILABLE VIA OFFLINE PRINT *

Structure attributes must be viewed using STN Express query preparation.

```

=> s 11
SAMPLE SEARCH INITIATED 18:23:41 FILE 'REGISTRY'
SAMPLE SCREEN SEARCH COMPLETED - 1246 TO ITERATE

```

```

100.0% PROCESSED      1246 ITERATIONS                      0 ANSWERS
SEARCH TIME: 00.00.01

```

```

FULL FILE PROJECTIONS:  ONLINE  **COMPLETE**
                        BATCH   **COMPLETE**
PROJECTED ITERATIONS:   22803 TO 27037
PROJECTED ANSWERS:      0 TO 0

```

L2 0 SEA SSS SAM L1

=> s l1 full

FULL SEARCH INITIATED 18:23:45 FILE 'REGISTRY'

FULL SCREEN SEARCH COMPLETED - 24478 TO ITERATE

100.0% PROCESSED 24478 ITERATIONS

7 ANSWERS

SEARCH TIME: 00.00.01

L3 7 SEA SSS FUL L1

=> s l3 and caplus/lc

65426321 CAPLUS/LC

L4 5 L3 AND CAPLUS/LC

=> s l3 not l5

L5 NOT FOUND

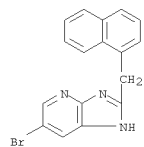
The L-number entered could not be found. To see the definition
of L-numbers, enter DISPLAY HISTORY at an arrow prompt (=>).

=> s l3 not l4

L5 2 L3 NOT L4

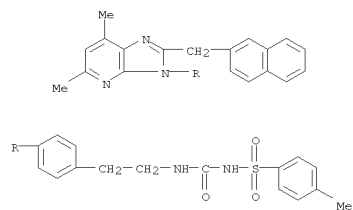
=> d l5 1-2

L5 ANSWER 1 OF 2 REGISTRY COPYRIGHT 2009 ACS on STN
 RN 502141-70-0 REGISTRY
 ED Entered STN: 08 Apr 2003
 CN 3H-Imidazo[4,5-b]pyridine, 6-bromo-2-(1-naphthalenylmethyl)- (CA INDEX NAME)
 OTHER CA INDEX NAMES:
 CN 1H-Imidazo[4,5-b]pyridine, 6-bromo-2-(1-naphthalenylmethyl)- (9CI)
 OTHER NAMES:
 CN NSC 381508
 MF C17 H12 Br N3
 SR Chemical Library



PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT

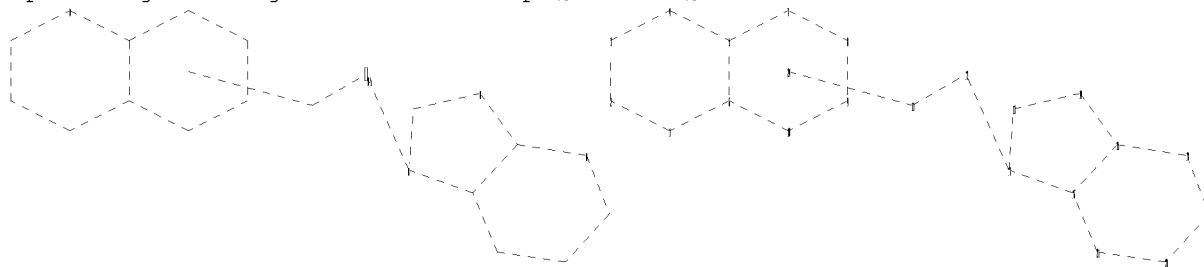
L5 ANSWER 2 OF 2 REGISTRY COPYRIGHT 2009 ACS on STN
 RN 415905-20-3 REGISTRY
 ED Entered STN: 15 May 2002
 CN Benzenesulfonamide, N-[[[2-[4-[5,7-dimethyl-2-(2-naphthalenylmethyl)-3H-imidazo[4,5-b]pyridin-3-yl]phenyl]ethyl]amino]carbonyl]-4-methyl- (CA INDEX NAME)
 MF C35 H33 N5 O3 S
 CI CCM
 SR CA



PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT

=>

Uploading C:\Program Files\Stnexp\Queries\QUERIES\10550286.str



chain nodes :

11 12

ring nodes :

1 2 3 4 5 6 7 8 9 10 13 14 15 16 17 18 19 20 21

chain bonds :

11-12 12-17

ring bonds :

1-2 1-6 2-3 3-4 4-5 5-6 5-7 6-10 7-8 8-9 9-10 13-17 13-14 14-15 15-16
15-18 16-17 16-21 18-19 19-20 20-21

exact/norm bonds :

1-2 1-6 2-3 3-4 4-5 5-6 5-7 6-10 7-8 8-9 9-10 11-12 12-17 13-17 13-14
14-15 15-16 15-18 16-17 16-21 18-19 19-20 20-21

Match level :

1:CLASS 2:CLASS 3:CLASS 4:CLASS 5:CLASS 6:CLASS 7:CLASS 8:CLASS 9:CLASS
10:CLASS 11:CLASS 12:CLASS 13:CLASS 14:CLASS 15:CLASS 16:CLASS 17:CLASS
18:CLASS 19:CLASS 20:CLASS 21:CLASS 24:CLASS

L6 STRUCTURE UPLOADED

=> d

L6 HAS NO ANSWERS

L6 STR

* STRUCTURE DIAGRAM TOO LARGE FOR DISPLAY - AVAILABLE VIA OFFLINE PRINT *

Structure attributes must be viewed using STN Express query preparation.

=> s 16

SAMPLE SEARCH INITIATED 18:25:28 FILE 'REGISTRY'

SAMPLE SCREEN SEARCH COMPLETED - 62 TO ITERATE

100.0% PROCESSED 62 ITERATIONS

0 ANSWERS

SEARCH TIME: 00.00.01

```

FULL FILE PROJECTIONS:  ONLINE  **COMPLETE**
                        BATCH  **COMPLETE**
PROJECTED ITERATIONS:   768 TO    1712
PROJECTED ANSWERS:      0 TO      0

```

L7 0 SEA SSS SAM L6

```

=> s 16 full
FULL SEARCH INITIATED 18:25:33 FILE 'REGISTRY'
FULL SCREEN SEARCH COMPLETED -      1456 TO ITERATE

```

```

100.0% PROCESSED      1456 ITERATIONS                0 ANSWERS
SEARCH TIME: 00.00.01

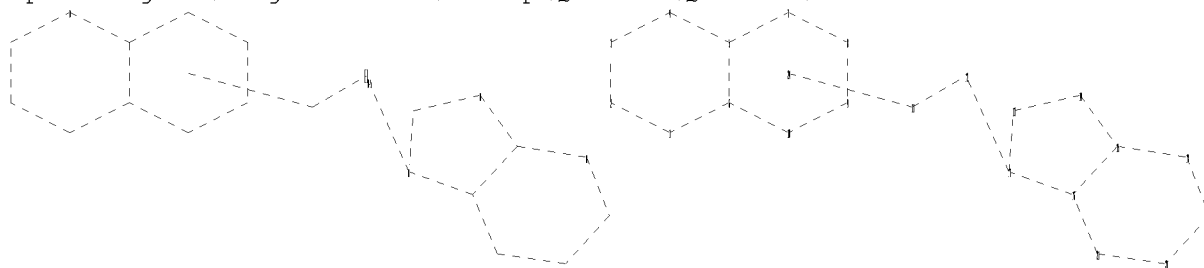
```

L8 0 SEA SSS FUL L6

```

=>
Uploading C:\Program Files\Stnexp\Queries\QUERIES\10550286.str

```



```

chain nodes :
11 12
ring nodes :
1 2 3 4 5 6 7 8 9 10 13 14 15 16 17 18 19 20 21
chain bonds :
11-12 12-17
ring bonds :
1-2 1-6 2-3 3-4 4-5 5-6 5-7 6-10 7-8 8-9 9-10 13-17 13-14 14-15 15-16
15-18 16-17 16-21 18-19 19-20 20-21
exact/norm bonds :
1-2 1-6 2-3 3-4 4-5 5-6 5-7 6-10 7-8 8-9 9-10 11-12 12-17 13-17 13-14
14-15 15-16 15-18 16-17 16-21 18-19 19-20 20-21

```

```

Match level :
1:CLASS 2:CLASS 3:CLASS 4:CLASS 5:CLASS 6:CLASS 7:CLASS 8:CLASS 9:CLASS
10:CLASS 11:CLASS 12:CLASS 13:CLASS 14:CLASS 15:CLASS 16:CLASS 17:CLASS
18:CLASS 19:CLASS 20:CLASS 21:CLASS 24:CLASS

```

L9 STRUCTURE UPLOADED

=> d

L9 HAS NO ANSWERS

L9 STR

* STRUCTURE DIAGRAM TOO LARGE FOR DISPLAY - AVAILABLE VIA OFFLINE PRINT *

Structure attributes must be viewed using STN Express query preparation.

=> s 19

SAMPLE SEARCH INITIATED 18:26:34 FILE 'REGISTRY'

SAMPLE SCREEN SEARCH COMPLETED - 101 TO ITERATE

100.0% PROCESSED 101 ITERATIONS

0 ANSWERS

SEARCH TIME: 00.00.01

FULL FILE PROJECTIONS: ONLINE **COMPLETE**

BATCH **COMPLETE**

PROJECTED ITERATIONS: 1418 TO 2622

PROJECTED ANSWERS: 0 TO 0

L10 0 SEA SSS SAM L9

=> s 19 full

FULL SEARCH INITIATED 18:26:39 FILE 'REGISTRY'

FULL SCREEN SEARCH COMPLETED - 1971 TO ITERATE

100.0% PROCESSED 1971 ITERATIONS

8 ANSWERS

SEARCH TIME: 00.00.01

L11 8 SEA SSS FUL L9

=> s 111 and caplus/lc

65426321 CAPLUS/LC

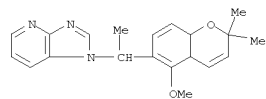
L12 7 L11 AND CAPLUS/LC

=> s 111 not 112

L13 1 L11 NOT L12

=> d

Database: ChemSpider (ChemZoo, Inc.)



PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT

=> fil caplus		
COST IN U.S. DOLLARS	SINCE FILE	TOTAL
	ENTRY	SESSION
FULL ESTIMATED COST	575.93	576.15

FILE 'CAPLUS' ENTERED AT 18:26:57 ON 24 APR 2009
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FILE COVERS 1907 - 24 Apr 2009 VOL 150 ISS 18
 FILE LAST UPDATED: 23 Apr 2009 (20090423/ED)

Caplus now includes complete International Patent Classification (IPC) reclassification data for the third quarter of 2008.

CAS Information Use Policies apply and are available at:

<http://www.cas.org/legal/infopolicy.html>

This file contains CAS Registry Numbers for easy and accurate substance identification.

=> d his

(FILE 'HOME' ENTERED AT 18:23:09 ON 24 APR 2009)

FILE 'REGISTRY' ENTERED AT 18:23:22 ON 24 APR 2009

L1	STRUCTURE UPLOADED
L2	0 S L1
L3	7 S L1 FULL
L4	5 S L3 AND CAPLUS/LC
L5	2 S L3 NOT L4
L6	STRUCTURE UPLOADED
L7	0 S L6
L8	0 S L6 FULL
L9	STRUCTURE UPLOADED
L10	0 S L9
L11	8 S L9 FULL
L12	7 S L11 AND CAPLUS/LC
L13	1 S L11 NOT L12

FILE 'CAPLUS' ENTERED AT 18:26:57 ON 24 APR 2009

=> s l12

L14	4 L12
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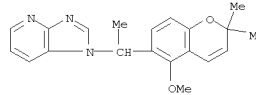
=> d ibib abs hitstr 1-4

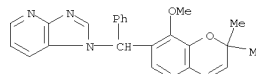
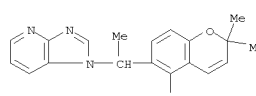
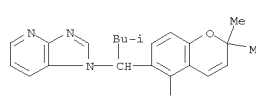
L14 ANSWER 1 OF 4 CAPLUS COPYRIGHT 2009 ACS ON STN
ACCESSION NUMBER: 2005:76708 CAPLUS
DOCUMENT NUMBER: 142:290843
TITLE: Identification of a novel small-molecule inhibitor of the hypoxia-inducible factor 1 pathway
AUTHOR(S): Tan, Chalet; de Noronha, Rita G.; Roecker, Anthony J.;
Pyrynska, Beata; Khwaja, Fatima; Zhang, Zhaobin; Zhang, Huanchun; Teng, Quincy; Nicholson, Ainsley C.; Giannakakou, Paraskevi; Zhou, Wei; Olson, Jeffrey J.; Pereira, M. Manuela; Nicolaou, K. C.; Van Meir, Erwin G.
CORPORATE SOURCE: Department of Neurosurgery, Emory University School of
Medicine, Atlanta, GA, USA
SOURCE: Cancer Research (2005), 65(2), 605-612
CODEN: CNREA8; ISSN: 0008-5472
PUBLISHER: American Association for Cancer Research
DOCUMENT TYPE: Journal
LANGUAGE: English
AB Hypoxia-inducible factor 1 (HIF-1) is the central mediator of cellular responses to low oxygen and has recently become an important therapeutic target for solid tumor therapy. Inhibition of HIF-1 is expected to result in the attenuation of hypoxia-inducible genes, which are vital to many aspects of tumor biol., including adaptative responses for survival under anaerobic conditions. To identify small mol. inhibiting the HIF-1 pathway, we did a biol. screen on a 10,000-membered natural product-like combinatorial library. The compds. of the library, which share a 2,2-dimethylbenzopyran structural motif, were tested for their ability to inhibit the hypoxic activation of an alkaline phosphatase reporter gene under the control of hypoxia-responsive elements in human glioma cells. This effort led to the discovery of 103D5R, a novel small-mol. inhibitor of HIF-1 α . 103D5R markedly decreased HIF-1 α protein levels induced by hypoxia or cobaltous ions in a dose- and time-dependent manner, whereas minimally affecting global cellular protein expression levels, including that of control proteins such as HIF-1 β , I κ B α , and β -actin. The inhibitory activity of 103D5R against HIF-1 α was clearly shown under normoxia and hypoxia in cells derived from different cancer types, including glioma, prostate, and breast cancers. This inhibition prevented the activation of HIF-1 target genes under hypoxia such as vascular endothelial growth factor (VEGF) and glucose transporter-1 (Glut-1). Investigations into the mol. mechanism showed that 103D5R strongly reduced HIF-1 α protein synthesis, whereas HIF-1 α mRNA levels and HIF-1 α degradation were not affected. 103D5R inhibited the phosphorylation of Akt, Erk1/2, and stress-activated protein kinase/c-jun-NH2-kinase, without changing the total levels of these proteins. Further studies on the mechanism of action of 103D5R will likely provide new insights into its validity/applicability for the pharmacol. targeting of HIF-1 α for therapeutic purposes.
IT 773852-25-8, 103D5R
RL: PAC (Pharmacological activity); THU (Therapeutic use); BIOL (Biological study); USES (Uses)
RN 773852-25-8 CAPLUS
CN 1H-Imidazo[4,5-b]pyridine,
1-[1-(5-methoxy-2,2-dimethyl-2H-1-benzopyran-6-

L14 ANSWER 2 OF 4 CAPLUS COPYRIGHT 2009 ACS ON STN
ACCESSION NUMBER: 2004:857335 CAPLUS
DOCUMENT NUMBER: 141:343534
TITLE: HIF-1 inhibitors
INVENTOR(S): Van Meir, Erwin; Tan, Chalet; Roecker, Anthony; Nicolaou, Kyriacos C.
PATENT ASSIGNEE(S): Emory University, USA; The Scripps Research Institute T.S.R.I.
SOURCE: PCT Int. Appl., 91 pp.
CODEN: PIXXD2
DOCUMENT TYPE: Patent
LANGUAGE: English
FAMILY ACC. NUM. COUNT: 1
PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
WO 2004087066	A2	20041014	WO 2004-US9548	20040329
WO 2004087066	A3	20050224		
W:	AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BW, BY, BZ, CA, CH, CN, CO, CR, CU, CZ, DE, DK, DM, DZ, EC, EE, EG, ES, FI, GB, GD, GE, GH, GM, GR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, MY, NA, NI, NO, NZ, OM, PG, PH, PL, PT, RO, RU, SC, SD, SE, SG, SK, SL, SY, TJ, TM, TN, TR, TT, TZ, UA, UG, US, UZ, VC, VN, YU, ZA, ZM, ZW			
RW:	BW, GH, GM, KE, LS, MW, MZ, SD, SL, SZ, TZ, UG, ZM, ZW, AM, AZ, BY, KG, KZ, MD, RU, TJ, TM, AT, BE, BG, CH, CY, CZ, DE, DK, EE, ES, FI, FR, GB, GR, HU, IE, IT, LU, MC, NL, PL, PT, RO, SE, SI, SK, TR, BF, BJ, CF, CG, CI, CM, GA, GN, GQ, GW, ML, MR, NE, SN, TD, TG			
CA 2522441	A1	20041014	CA 2004-2522441	20040329
EP 1613311	A2	20060111	EP 2004-749494	20040329
R:	AT, BE, CH, DE, DK, ES, FR, GB, GR, IT, LI, LU, NL, SE, MC, PT, IE, SI, LT, LV, FI, RO, MK, CY, AL, TR, BG, CZ, EE, HU, PL, SK			
US 20070099952	A1	20070503	US 2005-550286	20050922
PRIORITY APPLN. INFO.:			US 2003-458218P	P 20030327
			WO 2004-US9548	W 20040329

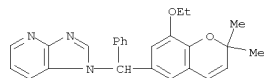
OTHER SOURCE(S): MARPAT 141:343534
AB HIF-1 inhibitors and methods of their use are provided. In particular, 2,2-dimethylbenzopyran based compds. and methods of their use, for example in the treatment or prevention of hypoxia-related pathologies are provided.
IT 773852-24-7 773852-25-8 773852-26-9
RL: PAC (Pharmacological activity); THU (Therapeutic use); BIOL (Biological study); USES (Uses)
(HIF-1 inhibitors such as dimethylbenzopyran based compds. for treatment of hypoxia-related diseases in combination with other agents in relation with modulation of gene transcription)
RN 773852-24-7 CAPLUS
CN 1H-Imidazo[4,5-b]pyridine, 1-[(8-methoxy-2,2-dimethyl-2H-1-benzopyran-7-yl)phenylmethyl]- (CA INDEX NAME)

L14 ANSWER 1 OF 4 CAPLUS COPYRIGHT 2009 ACS ON STN (Continued)
yl)ethyl]- (CA INDEX NAME)

REFERENCE COUNT: 28 THERE ARE 28 CITED REFERENCES AVAILABLE FOR THIS RECORD. ALL CITATIONS AVAILABLE IN THE RE
FORMAT

L14 ANSWER 2 OF 4 CAPLUS COPYRIGHT 2009 ACS ON STN (Continued)

RN 773852-25-8 CAPLUS
CN 1H-Imidazo[4,5-b]pyridine,
1-[1-(5-methoxy-2,2-dimethyl-2H-1-benzopyran-6-yl)ethyl]- (CA INDEX NAME)

RN 773852-26-9 CAPLUS
CN 1H-Imidazo[4,5-b]pyridine,
1-[1-(5-methoxy-2,2-dimethyl-2H-1-benzopyran-6-yl)-3-methylbutyl]- (CA INDEX NAME)


L14 ANSWER 3 OF 4 CAPLUS COPYRIGHT 2009 ACS on STN

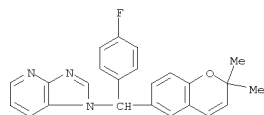
ACCESSION NUMBER: 2000:690830 CAPLUS
DOCUMENT NUMBER: 134:29278
TITLE: Natural Product-like Combinatorial Libraries Based on Privileged Structures. 2. Construction of a 10 000-Membered Benzopyran Library by Directed Split-and-Pool Chemistry Using NanoKans and Optical Encoding
AUTHOR(S): Nicolaou, K. C.; Pfefferkorn, J. A.; Mitchell, H. J.; Roecker, A. J.; Barluenga, S.; Cao, G.-Q.; Affleck, R.
CORPORATE SOURCE: L.; Lillig, J. E.
SOURCE: Department of Chemistry and The Skaggs Institute for Chemical Biology, The Scripps Research Institute, La Jolla, CA, 92037, USA
JOURNAL OF THE AMERICAN CHEMICAL SOCIETY (2000), 122(41), 9954-9967
CODEN: JACSAT; ISSN: 0002-7863
PUBLISHER: American Chemical Society
DOCUMENT TYPE: Journal
LANGUAGE: English
OTHER SOURCE(S): CASREACT 134:29278
AB Having developed a reliable and versatile solid-phase strategy for the split-and-pool synthesis of naturally occurring and designed derivs. of the benzopyran template, this was applied to the construction of a 10 000-membered natural product-like compound library for chemical biol. studies.
Concomitantly, an early application of the IRORI NanoKan optical encoding system for the high throughput nonchem. tagging and sorting of library members during split-and-pool synthesis is reported. The overall synthetic strategy for library construction is discussed and the individual reaction pathways are examined in the context of specific library members, illustrating reaction conditions as well as yields and purities. The issues of building block selection and quality control of library members are also addressed and, finally, potential applications of the library to chemical biol. are discussed.
IT 310892-21-8P 310894-92-9P 310895-08-0P
RL: SPN (Synthetic preparation); PREP (Preparation)
(preparation of a 10 000-membered benzopyran library by split-and-pool chemical using NanoKans and optical encoding)
RN 310892-21-8 CAPLUS
CN 1H-Imidazo[4,5-b]pyridine, 1-[(8-ethoxy-2,2-dimethyl-2H-1-benzopyran-6-yl)phenylmethyl]- (CA INDEX NAME)



RN 310894-92-9 CAPLUS
CN 1H-Imidazo[4,5-b]pyridine, 1-[1-(2,2,6-trimethyl-2H-1-benzopyran-8-yl)ethyl]- (CA INDEX NAME)

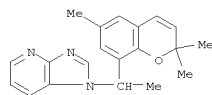
L14 ANSWER 4 OF 4 CAPLUS COPYRIGHT 2009 ACS on STN

ACCESSION NUMBER: 2000:690829 CAPLUS
DOCUMENT NUMBER: 134:17324
TITLE: Natural Product-like Combinatorial Libraries Based on Privileged Structures. 1. General Principles and Solid-Phase Synthesis of Benzopyrans
AUTHOR(S): Nicolaou, K. C.; Pfefferkorn, J. A.; Roecker, A. J.; Cao, G.-Q.; Barluenga, S.; Mitchell, H. J.
CORPORATE SOURCE: Department of Chemistry and The Skaggs Institute for Chemical Biology, The Scripps Research Institute, La Jolla, CA, 92037, USA
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AB A novel strategy for the design and construction of natural and natural product-like libraries based on the principle of privileged structures, a term originally introduced to describe structural motifs capable of interacting with a variety of unrelated mol. targets, is reported. The identification of such privileged structures in natural products is discussed, and subsequently the 2,2-dimethylbenzopyran moiety is selected as an inaugural template for the construction of natural product-like libraries via this strategy. Initially, a novel solid-phase synthesis of the benzopyran motif is developed employing a unique cycloloading strategy that relies on the use of a new, polystyrene-based selenenyl bromide resin. Once the loading, elaboration, and cleavage of these benzopyrans was established, this new solid-phase method was then thoroughly validated through the construction of six focused combinatorial libraries designed around natural and designed mols. of recent biol. interest.
IT 310403-63-5P
RL: SPN (Synthetic preparation); PREP (Preparation)
(solid-phase synthesis of natural product-related benzopyran libraries using polystyrene-supported selenenyl bromide)
RN 310403-63-5 CAPLUS
CN 1H-Imidazo[4,5-b]pyridine, 1-[(2,2-dimethyl-2H-1-benzopyran-6-yl) (4-fluorophenyl)methyl]- (CA INDEX NAME)

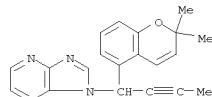


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RN 310895-08-0 CAPLUS
CN 1H-Imidazo[4,5-b]pyridine, 1-[1-(2,2-dimethyl-2H-1-benzopyran-5-yl)-2-butyn-1-yl]- (CA INDEX NAME)



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